AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1	1. (Original) A method for performing a product configuration, the product configuration
2	associated with a configuration problem defining a number of constraints, one or
3	more variables, and domain members associated with each variable, the method
4	comprising:
5	receiving user input specifying at least one selected domain member;
6	propagating the constraints over the received user input thereby producing a result
7	that identifies incompatibilities between the domain members caused by
8	the at least one selected domain member; and
9	modifying the result by detecting and eliminating incompatibilities caused solely
10	by bounceback behavior.
1	2. (Original) The method of claim 1, further comprising:
2	generating a configuration page based on the modified result so that domain
3	members identified as being incompatible due to bounceback behavior are
4	not marked as conflicted choices on the configuration page; and
5	providing the configuration page to the user.
1	3. (Original) The method of claim 1, further comprising:
2	repeating steps included in the method until the product configuration is complete.
1	4. (Previously Presented) The method of claim 1, wherein the method is implemented by
2	a set of software instructions running on a computer.

1	5. (Original) A system for performing a product configuration, the product configuration
2	associated with a configuration problem defining a number of constraints, one or
3	more variables, and domain members associated with each variable, the system
4	comprising:
5	a configuration engine adapted to receive user input specifying at least one
6	selected domain member and to propagate the constraints over the
7	received user input thereby producing a result that identifies
8	incompatibilities between the domain members caused by the at least one
9	selected domain member; and
10	a bounceback detection module operatively coupled to the configuration engine,
11	the bounceback detection module adapted to modify the result by
12	detecting and eliminating incompatibilities caused solely by bounceback
13	behavior.
1	6. (Original) The system of claim 5, further comprising:
2	a page generation module operatively coupled to the configuration engine, the
3	page generation module adapted to generate a configuration page based or
4	the modified result so that domain members identified as being

incompatible due to bounceback behavior are not marked as conflicted

choices on the configuration page, and to provide the configuration page

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to the user.

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1	7. (Original) The system of claim 5, wherein the configuration engine and the
2	bounceback detection module are implemented by a set of software instructions
3	running on a computer.
1	8. (Original) A method for performing a product configuration, the product configuration
2	associated with a configuration problem defining a number of constraints, one or
3	more variables, and domain members associated with each variable, the method
4	comprising:
5	receiving user input specifying at least one selected domain member;
6	propagating the constraints over the received user input thereby producing a result
7	that identifies incompatibilities between the domain members caused by
8	the at least one selected domain member;
9	modifying the result by detecting and eliminating incompatibilities caused solely
10	by bounceback behavior;
11	generating a configuration page based on the modified result so that domain
12	members identified as being incompatible due to bounceback behavior are
13	not marked as conflicted choices on the configuration page;
14	providing the configuration page to the user; and
15	repeating the receiving, propagating, modifying, generating, and providing steps
16	until the product configuration is complete.

1	9. (Original) A method for detecting bounceback behavior associated with a
2	configuration problem, the configuration problem defining a number of
3	constraints, one or more variables, and domain members associated with each
4	variable, the method comprising:
5	receiving a domain member selection for a particular variable;
6	setting a bounceback detection bit vector associated with each non-selected
7	domain member of the particular variable so that each of those
8	bounceback detection bit vectors indicates bounceback behavior;
9	setting an elimination flag associated with each non-selected domain member of
10	the particular variable so that each of those elimination flags indicates that
11	its associated domain member is tentatively eliminated;
12	propagating the constraints to identify eliminated domain members of the
13	variables;
14	setting the bounceback detection bit vector of the eliminated domain members to
15	indicate which variable caused their elimination; and
16	setting the elimination flag of each of the other eliminated domain members.
	10 (Original) The mode of a Calaira O. C. at
. 1	10. (Original) The method of claim 9, further comprising preliminary steps of:
2.	initializing the bounceback detection bit vector for each domain member of each
3	variable; and
4	initializing the elimination flag for each domain member of each variable.

l	11. (Original) The method of claim 9, wherein the receiving step includes receiving a
2	plurality of domain member selections associated with a corresponding number of
3	particular variables, and the setting and propagation steps of the method are
1	performed for each of the domain member selections.
1	12 (Original) The method of aloim 0, wherein however detection hit vectors that
L	12. (Original) The method of claim 9, wherein bounceback detection bit vectors that
2	indicate bounceback behavior indicate that the particular variable associated with
3	the selected domain member is responsible for elimination of the non-selected
1	domain members.
l	13. (Original) The method of claim 9, further comprising:
2	confirming the tentative elimination of a non-selected domain member in
3	response to the bounceback detection bit vector associated with that non-
1	selected domain member not indicating bounceback behavior as a result of
5	subsequent constraint propagation.
l	14. (Original) The method of claim 9, further comprising:
2	overriding the tentative elimination of a non-selected domain member in response
3	to the bounceback detection bit vector associated with that non-selected
1	domain member indicating bounceback behavior despite subsequent
5	constraint propagation.

l	15. (Original) The method of claim 9, wherein the step of setting the bounceback
2	detection bit vector of an eliminated domain member to indicate which variable
3	caused that domain member's elimination includes:
1	based on the constraints, identifying a domain member causing the eliminated
5	domain member to be eliminated; and
5	copying the bounceback detection bit vector associated with the identified domain
7	member to the bounceback detection bit vector associated with the
3	eliminated domain member.
l	16. (Original) The method of claim 9, wherein the step of setting the bounceback
2	detection bit vector of an eliminated domain member to indicate which variable
3	caused that domain member's elimination includes:
ļ	based on the constraints, identifying a join corresponding to a disjunction;
5	logically ANDing the bounceback detection bit vectors associated with the
5	domain members included in the join thereby producing a resulting
7	bounceback detection bit vector; and
3	copying the resulting bounceback detection bit vector to the bounceback detection
)	bit vector associated with the eliminated domain member.

l	17. (Original) The method of claim 9, wherein the step of setting the bounceback
2	detection bit vector of an eliminated domain member to indicate which variable
3	caused that domain member's elimination includes:
1	based on the constraints, identifying a join corresponding to a conjunction;
5	logically ORing the bounceback detection bit vectors associated with the
5	domain members included in the join thereby producing a resulting
7	bounceback detection bit vector; and
3	copying the resulting bounceback detection bit vector to the bounceback detection
•	bit vector associated with the eliminated domain member.
l	18. (Original) The method of claim 9, further comprising:
2	generating a configuration page based on the constraints so that domain members
3	identified as being eliminated due to bounceback behavior are not marked
ļ	as conflicted choices on the configuration page; and
5	providing the configuration page to a user.
_	19. (Original) The method of claim 9, wherein the steps of the method are repeated each
?	time a user submits one or more new domain member selections.
L	20. (Previously Presented) The method of claim 9, wherein the method is implemented
2	by a set of software instructions running on a computer.

1	21. (Original) A method for detecting and eliminating bounceback behavior associated
2	with a configuration problem, the configuration problem defining a number of
3	constraints, one or more variables, and domain members associated with each
4	variable, the method comprising:
5	initializing a bounceback detection bit vector for each domain member of each
6	variable;
7	initializing a elimination flag for each domain member of each variable;
8	receiving a domain member selection for a particular variable;
9	setting the bounceback detection bit vector associated with each non-selected
10	domain member of the particular variable so that each of those
11	bounceback detection bit vectors indicates bounceback behavior;
12	setting the elimination flag associated with each non-selected domain member of
13	the particular variable so that each of those elimination flags indicates that
14	its associated domain member is tentatively eliminated;
15	propagating the constraints to identify eliminated domain members of the
16	variables;
17	setting the bounceback detection bit vector of the eliminated domain members to
18	indicate which variable caused their elimination; and
19	setting the elimination flag of each of the other eliminated domain members.

L	22. (Original) The method of claim 21, wherein the step of setting the bounceback
2	detection bit vector of an eliminated domain member to indicate which variable
3	caused that domain member's elimination includes:
1	based on the constraints, identifying a domain member causing the eliminated
5	domain member to be eliminated; and
5	copying the bounceback detection bit vector associated with the identified domain
7	member to the bounceback detection bit vector associated with the
3	eliminated domain member.
	23. (Original) The method of claim 21, wherein the step of setting the bounceback
2	detection bit vector of an eliminated domain member to indicate which variable
3	caused that domain member's elimination includes:
1	based on the constraints, identifying a join corresponding to a disjunction;
5	logically ANDing the bounceback detection bit vectors associated with the
ó	domain members included in the join thereby producing a resulting
,	bounceback detection bit vector; and
3	copying the resulting bounceback detection bit vector to the bounceback detection
)	bit vector associated with the eliminated domain member.

1	24. (Original) The method of claim 21, wherein the step of setting the bounceback
2	detection bit vector of an eliminated domain member to indicate which variable
3	caused that domain member's elimination includes:
4	based on the constraints, identifying a join corresponding to a conjunction;
5	logically ORing the bounceback detection bit vectors associated with the domain
6	members included in the join thereby producing a resulting bounceback
7.	detection bit vector; and
8	copying the resulting bounceback detection bit vector to the bounceback detection
9	bit vector associated with the eliminated domain member.
1.	25. (Previously Presented) The method of claim 21, wherein the method is implemented
2	by a set of software instructions running on a computer.

1	26. (Previously Presented) A method for performing a product configuration, the method
2	comprising:
3	receiving user input specifying at least a first domain member of a plurality of
4	domain members, the plurality of domain members being associated with
5	a variable of the product configuration;
6	propagating one or more constraints associated with the received user input to
7	produce a result that identifies a potential incompatibility of a second
8	domain member of the plurality of domain members, the one or more
9	constraints characterizing limits on the product configuration; and
10	modifying the result by eliminating the potential incompatibility if the potential
11	incompatibility is caused solely by the specification of the first domain
12	member and constraint propagation resulting from the specification of the
13	first domain member.
1	27. (Previously Presented) The method of claim 26, wherein the constraint propagation

involves at least one other variable of the product configuration.

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1	28. (Previously Presented) A system for performing a product configuration, the system
2	comprising:
3	means for receiving user input specifying at least a first domain member of a
4	plurality of domain members, the plurality of domain members being
5	associated with a first variable of the product configuration;
6	means for identifying an incompatibility in the product configuration, the
7	incompatibility being based on the user input and propagation of
8	constraints of the product configuration, the identification excluding any
9	incompatibilities caused solely by bounceback behavior; and
10	producing a result including the identified incompatibility.

1	29. (Previously Presented) A computer readable medium including computer code stored
2	thereupon, the computer code comprising:
3	a code segment configured for receiving user input specifying at least a first
4	domain member of a plurality of domain members, the plurality of domain
5	members being associated with a variable of the product configuration;
6	a code segment configured for propagating one or more constraints associated
7	with the received user input to produce a result that identifies an potential
8	incompatibility of a second domain member of the plurality of domain
9	members, the constraints characterizing limits on the product
10	configuration; and
11	a code segment configured for modifying the result by eliminating the potential
12	incompatibility, if the potential incompatibility is caused solely by the
13	specification of the first domain member and constraint propagation
14	resulting from the specification of the first domain member.